

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/002815

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L G07F H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 156 694 A (MITSUBISHI ELECTRIC CORP) 21 November 2001 (2001-11-21) abstract paragraph '0112! - paragraph '0116!	1-5
A	WO 99/64996 A (LANDIS & GYR COMMUNICATIONS S ;CAMBOIS ETIENNE (FR)) 16 December 1999 (1999-12-16) abstract page 6, line 28 - page 7, line 17	1-5
A	EP 0 789 335 A (DEUTSCHE TELEKOM AG) 13 August 1997 (1997-08-13) abstract	1-5
A	EP 0 654 919 A (SIEMENS AG) 24 May 1995 (1995-05-24) abstract	1-5

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

28 October 2004

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Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Bertolissi, E

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1156694 A	21-11-2001	AT 274282 T	15-09-2004
		AU 759377 B2	10-04-2003
		AU 2806001 A	09-07-2001
		CA 2365127 A1	05-07-2001
		DE 60013099 D1	23-09-2004
		EP 1156694 A1	21-11-2001
		NO 20014097 A	25-10-2001
		TW 498638 B	11-08-2002
		CN 1342376 T	27-03-2002
		EP 1458211 A1	15-09-2004
		WO 0149058 A1	05-07-2001
WO 9964996 A	16-12-1999	AU 3841999 A	30-12-1999
		EP 1082710 A1	14-03-2001
		WO 9964996 A1	16-12-1999
		TW 413799 B	01-12-2000
EP 0789335 A	13-08-1997	DE 19604349 A1	14-08-1997
		EP 0789335 A2	13-08-1997
EP 0654919 A	24-05-1995	DE 4339460 C1	06-04-1995
		EP 0654919 A2	24-05-1995